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(54) SCRATCH-RESISTANT CLEAR COAT CONTAINING SURFACE-REACTIVE FINE POWDER AND ITS PRODUCTION

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a coating material composition having good scratch resistance and to provide a method for improving the scratch resistance of the coating composition.

SOLUTION: This coating composition comprises (A) a coating membrane type binder system containing a cross-linkable resin and if necessary a cross-linking agent for cross-linking the cross-linkable resin, (B) colorless carbide or inorganic fine particles capable of reacting with a cross-linking part of the coating membrane type binder system and having about 1-1,000nm particle diameter before blending to the coating composition, and (C) a solvent system for the cross-linkable resin and if necessary a solvent system for the used cross-linking agent and the fine particles. The percentage of the cross-linkable resin is about 10 to about 80wt.% and that of the inorganic fine particles is about 0.1 to about 60wt.% based on the total weight of the cross-linkable resin, the optionally used cross-linking agent and the inorganic particles.

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